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 Conductivity, Surface tension, Thermodynamics,
 Equations, Agriculture.

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 lary and film moisture and of the state of equilibrium
 of condensed moisture in a soil layer. Relations are
 derived that make it possible to solve such problems as
 the determination of the height of capillary rise of
 moisture, the possible height of the layer of suspended
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D. Shvachkin, 10 pp

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STATE OF THE NEURONS. [1962] [17]p. 55 refs.
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DESCRIPTORS: *Nerves, *Cells (Biology),
*Nucleoproteins, Nucleic acids, Cytochemistry,
Bioelectronics.

The histochemical method of revealing the sum total of
the nucleoproteides in the nerve cells is based on dif-
ferences of the isoelectric points of the proteins com-
plexes in concrete structures. Differentiating fer-
mentolysis of the micro preparations controls the
nature of the studied nucleo-proteides. The reactivity
(Biological Sciences--Biochemistry, TT, v. 8, no. 8)
(over)

I. Shabadash, A. L.
II. Palladin, A. V.
III. Title: Problems...

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WITH CESSATION OF BLOOD CIRCULATION ON
BRAIN METABOLISM. [1962] [19]p. 29 refs.
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(Problems in the Biochemistry of the Nervous Sys-
tem) ed by A. V. Palladin, Kiev, 1957, chap. 22,
p. 247-257

DESCRIPTORS: *Hypothermia, *Blood circulation,
*Brain, Pathology, *Metabolism, Physiology,
Phospholipids, Lipoproteins, Amino acids, Glucose,
Glycogen

Research is summarized and tabulated on the effect
on brain metabolism of hypothermia and hypothermia
with cessation of blood circulation. Various methods
were used for inducing hypothermia and cessation of
(Biological Sciences--Biochemistry, TT, v. 8, no. 9)
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II. Palladin, A. V.
III. Title: Problems...

Office of Technical Services

Chagovets, R. V., Lakhno, E. V. and others.
A COMPARATIVE STUDY OF THE EFFECT ON
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[ed. by] A. V. Palladin, Kiev, 1957, chap. 23,
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DESCRIPTORS: *Metabolism, Dehydrogenases, Phos-
phorus compounds, Thiamine, Ascorbic acid, *Nerv-
ous system, Body temperature, *Hypothermia, Drugs,
*Chlorpromazine, *Barbituates.

The effects of inducing hypothermia by various means
were observed on the metabolite restoring properties,
dehydrase activity, labile phosphorus compounds,
(Biological Sciences--Physiology, TT, v. 8, no. 7)
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I. Chagovets, R. V.
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III. Palladin, A. V.
IV. Title: Problems ...

Office of Technical Services

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Gaevskaya, M. S.

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[ed. by] A. V. Palladin, Kiev, 1957, Chap. 24,
p. 265-277.

INDEXED IN: *Carbohydrates, *Phosphorus, *Metabolism, *Brain, *Hypothermia, *Clinical Death

The problem of the present research consisted of investigating the energy possibilities in cerebral tissue during different stages of dying and resuscitation of animals under conditions of hypothermia. Hypothermia (Biological Sciences--Physiology, TT, v. 9, no. 2) (over)

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Veksler, Ya. I.

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Trans. of mono. [Voprosy Biokhimi Nervnoi Sistemy]
(Problems in the Biochemistry of the Nervous System)
Vol. 1, No. 1, 1962, p. 25, p. 27, p. 29.DESCRIPTORS: *Phosphorus compounds, *Brain, *Hyp-
othermia, Anesthesia, Adenosine phosphates, Metab-
olism, Phosphorylation, Pentothal sodium.The adenosine triphosphate, creatine phosphate and in-
organic phosphates in the brains of rats and rabbits were
analyzed following hypothermia without drugs and hypo-
thermia with sodium amytal induced narcosis. Arti-
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